(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁷: G11B 20/00

(21) International Application Number:
PCT/GB2004/002433

(22) International Filing Date: 9 June 2004 (09.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
GB0313240.4   9 June 2003 (09.06.2003)   GB

(71) Applicant (for all designated States except US): FIRST 4
INTERNET LTD [GB/GB]; 6 South Bar Street, Banbury,
Oxon OX16 9AA (GB).

(72) Inventors; and
(75) Inventors/Applicants (for US only): MILES, Anthony
[GB/GB]; 6 South Bar Street, Banbury, Oxon OX16 9AA
(GB). BENSON, Iain [GB/GB]; 38 Ffordd Ger Y Llyn,
Tircoed Forest Village, Penllergaer, Swansea SA4 9ZJ
(GB). COBURN, Ceri [GB/GB]; 15 Prospect Place, Tre-
orchy, Rhondda CF42 6RF (GB). DAVIES, Ian [GB/GB];
52 Hoel Nant Castan, Rhiwbina, Cardiff CF14 6RQ (GB).

(74) Agents: CROSS, James, Peter, Archibald et al.; R.G.C.
Jenkins & Co., 26 Caxton Street, London SW1H 0RJ (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:
— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: COPY PROTECTION SYSTEM FOR DATA CARRIERS

(57) Abstract: A copy-protected compact disc includes, within a single session, a table of contents (TOC) and a Video CD index
(VI). Each track (T) is prefaced by unrecoverable data (UD) at a track start position (ATOC) indicated by the table of contents (TOC).
However, the Video CD index (VI) indicates the actual position (AP) of the tracks. DVD players use the Video CD index (VI) to
locate the tracks, while CD-ROM drives use the table of contents (TOC) and read the unrecoverable data (UD), which prevents
them from reading the subsequent track (T). The unrecoverable data (UD) may be prefaced by data pointers (DP) which cause the
CD-ROM drive to load a player program in response to the error condition. The player program can be used to play the tracks (T),
but restricts copying. Subchannel data (P; DX) causes audio CD players to ignore the Video CD index (VI) and the unrecoverable
data (UD), and to play the tracks (T) at their actual start positions (AP).